

Form PTO-1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. UCT-0039	SERIAL NO. 10/656,868
Information Disclosure Statement by Applicant (Use several sheets if necessary)				APPLICANT WELLER et al.	
(37 cfr 1.98(b))				FILING DATE September 4, 2003	GROUP 1652

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
<i>CA</i>	4,736,866	04/12/1988	Leder et al.				
<i>AA</i>	4,853,230	08/01/1989	Lovgren et al.				
<i>AA</i>	4,873,191	10/10/1989	Wagner et al.				
<i>AA</i>	5,422,120	06/06/1995	Kim				
<i>AA</i>	5,714,353	02/03/1998	Pathak et al.				
<i>CA</i>	5,741,486	04/21/1998	Pathak et al.				

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
<i>CA</i>	EP 0 225 189 B1	07.10.92	European				
<i>AA</i>	EP 0 465 529 B1	29.04.98	European				
<i>AA</i>	EP 0 524 968 B1	07.06.95	European				
<i>CA</i>	EP 0 827 545 B1	27.02.02	European				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)		
EXAMINER INITIAL	AUTHOR	CITATION
<i>CA</i>	<i>AA</i>	Altschul et al., (1990), "Basic Local Alignment Search Tool", <i>J. Mol. Biol.</i> , Vol. 215, 403-410.
<i>AA</i>	<i>AA</i>	Altschul et al., (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", <i>Nucleic Acids Res.</i> , Vol. 25, No. 17, 3389-3402.
<i>AA</i>	<i>AA</i>	Better et al. (1988), " <i>Escherichia coli</i> Secretion of an Active Chimeric Antibody Fragment"; <i>Science</i> , Vol. 240, 1041-1043.
<i>CA</i>	<i>AA</i>	Bitter et al. (1987), "[33] Expression and Secretion Vectors of Yeast", <i>Methods in Enzymology</i> , Vol. 153, 516-544.

EXAMINER <i>C. Mathew</i>	DATE CONSIDERED <i>9/23/05</i>
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U.S. PATENT DOCUMENTS								
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
CA	AD	5,945,339	08/31/1999	Holloman et al.				
CA	AD	6,096,534	08/01/2000	Barsov et al.				
CA	AD	6,140,111	10/31/2000	Riviere et al.				
CA	AD	6,190,907	02/20/2001	Kim et al.				
CA	AD	6,355,412	03/12/2002	Stewart et al.				
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION								
		DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
CA	AD	WO 91/16024	31.10.91	World				
CA	AD	WO 91/16116	31.10.91	World				
CA	AD	WO 91/17424	14.11.91	World				
CA	AD	WO 95/13796	26.05.95	World				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)								
CA	AD	Bradley et al., (1986), "Embryo-Derived Stem Cells: A Tool for Elucidating the Developmental Genetics of the Mouse", <i>Current Topics in Dev. Biol.</i> , Vol. 20, 357-371.						
CA	AD	Copeland, et al., (2001), "Recombinering: A Powerful New Tool For Mouse Functional Genomics", <i>Nat. Rev. Genet.</i> , Vol. 2, 769-779.						
CA	AD	Doetschman et al., (1985), "The <i>in vitro</i> development of blastocyst-derived embryonic stem cell lines: formation of visceral yolk sac, blood islands and myocardium, <i>J. Embryol. Exp. Mol. Biol.</i> , Vol. 87, 27-45.						
CA	AD	Findeis et al., (1993), "Targeted delivery of DNA for gene therapy via receptors", <i>Trends in Biotechnol.</i> , Vol. 11, 202-205.						
EXAMINER <i>CA</i>				DATE CONSIDERED 9/23/05 5/4/06				
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CA	BB	Friedman, et al., (2001), "Bacteriophage lambda: alive and well and still doing its thing" <i>Curr Opin Microbiol</i> ; Vol. 4, 201-207.			
	BC	Goldstein, et al., (1998), "The Exonuclease Activity of HSV-1 UL12 is Required for <i>in Vivo</i> Function"; <i>Virology</i> , Vol. 244, 442-457.			
	BD	Gordon, Jon W., (1989), "Transgenic Animals"; <i>International Review of Cytology</i> , Vol. 115, 171-229.			
	BE	Haensler et al., (1993), "Synthesis and Characterization of a Trigalactosylated Bisacridine Compound To Target DNA to Hepatocytes"; <i>Bioconjugate Chem</i> , Vol. 4, 85-93.			
	BF	Hill, et al., (2000); "BAC Trimming: Minimizing Clone Overlaps", <i>Genomics</i> , Vol. 64, 111-113.			
	BG	Ikari et al., (2001); " α 1-Proteinase Inhibitor, α 1-Antichymotrypsin, and α 2-Macroglobulin Are the Antiapoptotic Factors of Vascular Smooth Muscle Cells", <i>Journal of Biological Chemistry</i> , Vol. 276, No. 15, 11798-11803.			
	BH	Ioffe et al., (1995); "WW6: An embryonic stem cell line with an inert genetic marker that can be traced in chimerax"; <i>Proc. Natl. Acad. Sci.</i> , Vol. 92, 7357-7361.			
	BI	Karlin, et al., (1990); "Methods for assessing the statistical significance of molecular sequence features by using general scoring schemes"; <i>Proc. Natl. Acad. Sci., U.S.A.</i> , Vol. 87, 2264-2268.			
	BJ	Lavitrano et al., (1989); "Sperm Cells as Vectors for Introducing Foreign DNA into Eggs; Genetic Transformation of Mice"; <i>Cell</i> , Vol. 57, 717-723.			
	BK	Ledley, et al., (1991); "Clinical Considerations in the Design of Protocols for Somatic Gene Therapy"; <i>Human Gene Therapy</i> , Vol. 2, 77-83.			
	BL	Ledley, et al., (1996); "Pharmaceutical Approach to Somatic Gene Therapy"; <i>Pharmaceutical Research</i> , Vol. 13, 1595-1613.			
CM	BM	Lee, et al., (2001); "A Highly Efficient <i>Escherichia coli</i> -Based Chromosome Engineering System Adapted for Recombinogenic Targeting and Subcloning of BAC DNA"; <i>Genomics</i> , Vol. 73, 56-65.			
EXAMINER M. Patterson			DATE CONSIDERED 9/23/05 5/4/06		
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CA	BN	Legan et al., (1975); "Role of Estrogen as Initiator of Daily LH Surges in the Ovariectomized Rat ^{1,2} "; <i>Endo</i> ; Vol. 96, 50-56.			
	BO	Lo (1983); "Transformation by Iontophoretic Microinjection of DNA: Multiple Integrations Without Tandem Insertions"; <i>Mol. Cell Biol.</i> , Vol. 3, No. 10, 1803-1814.			
	BP	Logan, et al., (1984); "Adenovirus tripartite leader sequence enhances translation of mRNAs late after infection"; <i>Proc. Natl. Acad. Sci. U.S.A.</i> , Vol. 81, 3655-3659.			
	BQ	Lowy, et al., (1980); "Isolation of Transforming DNA: Cloning the Hamster apt Gene"; <i>Cell</i> , Vol. 22, 817-823.			
	BR	Muyrers, et al., (2000); "RecE/RecT and Red α /Red β initiate double-stranded break repair by specifically interacting with their respective partners"; <i>Genes & Dev.</i> , Vol. 14, 1971-1982.			
	BS	Muyrers, et al., (2000); "Point mutation of bacterial artificial chromosomes by ET recombination"; <i>EMBO Rep.</i> , Vol. 1, 239-243.			
	BT	Muyrers, et al., (2000); "ET-Cloning: Think Recombination First"; <i>Genetic Eng.</i> , Vol. 22, 77-98.			
	BV	Muyrers, et al., (1999); "Rapid modification of bacterial artificial chromosomes by ET-recombination"; <i>Nucleic Acids Res.</i> , Vol. 27, 1555-1557.			
	BW	Muyrers, et al., (2001); "Techniques: Recombinogenic engineering - new options for cloning and manipulating DNA"; <i>Trends in Biochemical Sciences</i> , Vol. 26, No. 5, 325-331.			
	BX	Resnick, et al., (1989); "The Pathophysiology of Urinary Incontinence Among Institutionalized Elderly Persons"; <i>The New England Journal of Medicine</i> ; Vol. 320, No. 1, 1-7.			
		Salier, et al., (1996); "The inter- α -inhibitor family: from structure to regulation"; <i>Biochem Journal</i> ; Vol. 315, 1-9.			
CA	BY	Stow, N.D., (1992); "Herpes simplex virus type 1 origin-dependent DNA replication in insect cells using recombinant baculoviruses"; <i>J. Gen. Virol.</i> ; Vol. 73; 313-321.			
EXAMINER CA Walker				DATE CONSIDERED 7/23/05 5/4/06	
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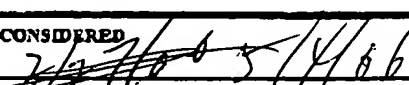
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OA	BZ	Szybalska, et al., (1962); "Genetics of Human Cell Lines, IV. DNA-Mediated Heritable Transformation of a Biochemical Trait"; <i>Proc. Natl. Sci. USA</i> ; Vol. 48, 2026-2034.			
1	CA	Thompson, et al., (1989); "Germ Line Transmission and Expression of a Corrected HPRT Gene Produced by Gene Targeting in Embryonic Stem Cells"; <i>Cell</i> ; Vol. 56; 313-321.			
1	CB	Yu, et al., (2000); "An efficient recombination system for chromosome engineering in <i>Escherichia coli</i> "; <i>Proc. Natl. Acad. Sci. USA</i> ; Vol. 97; 5978-5983.			
OA	CC	Van Der Putten, et al., (1985); "efficient insertion of genes into the mouse germ line via retroviral vectors"; <i>Proc. Natl. Acad. Sci. USA</i> ; Vol. 82; 6148-6152.			
OA	CD	Wigler et al., (1977); <i>Cell</i> ; Vol. 11, 233			
OA	CE	Wu et al., (1991); "Receptor-mediated Gene Delivery <i>in Vivo</i> "; <i>J. Biol. Chem.</i> ; Vol. 266, 14338-14342.			
1	CF	Wu et al., (1988); "Receptor-mediated Gene Delivery and Expression <i>in Vivo</i> "; <i>J. Biol. Chem.</i> ; Vol. 263, No. 29, 14621-14624.			
1	CG	Wu, et al., (1994); "Incorporation of Adenovirus into a Ligand-based DNA Carrier System Results in Retention of Original Receptor Specificity and Enhances Targeted Gene Expression"; <i>J. Biol. Chem.</i> ; Vol. 269, No. 15, 11542-11546.			
1	CH	Zenke, et al., (1990); "Receptor-mediated endocytosis of transferrin-polycation conjugates: An efficient way to introduce DNA into hematopoietic cells"; <i>Proc. Natl. Acad. Sci. USA</i> ; Vol. 87, 3655-3659.			
1	CI	Zhang, et al., (2000); "DNA cloning by homologous recombination in <i>Escherichia coli</i> "; <i>Nt. Biotechnol.</i> ; Vol. 18, 1314-1317.			
OA	CJ	NCBI Sequence, Accession M20165; www.ncbi.nlm.nih.gov ; printed 8/15/2002.			
OA	CK	NCBI Sequence, Accession NP_044613; www.ncbi.nlm.nih.gov ; printed 8/15/2002.			
EXAMINER C. Pullman		DATE CONSIDERED 9/23/05 5/18/06			
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				Applicant(s) Sandra Weller, et. al.			
				Filing Date September 4, 2003		Group Art Unit 1652	
U.S. PATENT DOCUMENTS							
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U.S. PATENT APPLICATION PUBLICATIONS							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS							
REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
EXAMINER INITIAL	REF	Wipier, Michael, et al.; "Transfer of Purified Herpes Virus Thymidine Kinase Gene to Cultured Mouse Cells"; Cell, Vol. 11, pp 233-232, May 1977					
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